

United States Government

Department of Energy

# Memorandum

DATE: July 1, 2003

REPLY TO  
ATTN OF: EM-43 (Jane Talarico, 301-903-7131)

SUBJECT: Idaho National Engineering and Environmental Laboratory Comprehensive  
Environmental Response, Compensation, and Liability Act Disposal Facility Landfill

TO: Elizabeth Sellers, Manager  
Idaho Operations Office

On December 2, 2002, Idaho Operations Office submitted the compliance demonstration document that cross-walked the process conducted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) for the Idaho National Engineering and Environmental Laboratory CERCLA Disposal Facility (ICDF) Landfill to the requirements under DOE Order 435.1 *Radioactive Waste Management*. The Idaho Operations Office also submitted a Performance Assessment, a Composite Analysis and the Waste Acceptance Criteria for the ICDF Landfill, and the Final Record of Decision for the Idaho Nuclear Technology and Engineering Center (INTEC). The Low-Level Waste Disposal Facility Federal Review Group reviewed the information submitted and has found that the documentation submitted demonstrates compliance with DOE Order 435.1 *Radioactive Waste Management* and has recommended that disposal authorization be granted for the ICDF Landfill.

As allowed under the provisions of DOE Order 435.1, the Record of Decision for the INTEC signed in 1999 documents the siting, design, operation, and closure and post-closure requirements, rather than a separate Disposal Authorization Statement. The disposal approval of the ICDF Landfill is granted with the understanding that the following information will be provided to the LFRG for review by December 2003:

1. Submit a revised Performance Assessment providing information that demonstrates the long-term protectiveness for the ICDF cover system.
2. Submit a revised Performance Assessment to include justifications for all assumptions; all assumptions and input parameters should have a reference where they are derived from or the justification for the use of the value.
3. Revise the Composite Analysis to include a scheme for monitoring groundwater for technetium-99 and carbon-14. Add tables to the revised Composite Analysis listing the wells sampled along with the concentrations for both technetium-99 and carbon-14.
4. Revise the Composite Analysis to include justifications for assumptions and input parameters.

Congratulations on a successful completion of this critical step in assuring the performance of the ICDF landfill. If you have any questions, please call me or the LFRG co-chairs Jay Rhoderick (301) 903-7211 and Barry Smith (301) 903-4482.

A handwritten signature in black ink that reads "Mark W. Frei". The signature is written in a cursive, flowing style.

Mark W. Frei  
Acting Deputy Assistant Secretary for  
Project Completion  
Environmental Management